PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT					
To: BOULT WADE TENNANT Attn. White, Nina Louise Verulam Gardens 70 Gray's Inn Road London WC1X 8BT UNITED KINGDOM Records	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION					
LD on Comp	(PCT Rule 44.1) Dete of mailing (day/month/year) 10/05/3005					
	(day/montn/year) 10/05/2005					
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below					
P62877WO00	International filing date					
International application No. PCT/GB2005/000440	(day/month/year) 10/02/2005					
Applicant	<u> </u>					
SOLEXA LIMITED						
The applicant is hereby notified that the international search	report and the written opinion of the International Searching					
Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the						
International Search Report; however, for more	details, see the notes on the accompanying sneet.					
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the acco	ascimile No.: (41–22) 740.14.35					
Article 17(2)(a) to that effect and the written opinion of the li	nternational Searching Authority are transmitted herewith.					
3. With regard to the protest against payment of (an) addition						
the protest together with the decision thereon has bee applicant's request to forward the texts of both the protest; the applicant is no decision has been made yet on the protest; the applicant is not decision has been made yet on the protest; the applicant is not decision has been made yet on the protest; the applicant is not decision has been made yet on the protest; the applicant is not decision thereon has been applicant is not decision the protection in the protection is not decision has been made yet on the protection in the protection is not decision that the protection is not decision to the protection is not decision that the protection is not decision to the protection is not decision to the protection is not decision to the protection is not decision that the protection is not decision to the protection is not decision to the protection that the protection is not decision to the protection is not decision to the protection that the protection is not decision to the protection that the protection is not decision to the protection that the protection is not decision to the protection that the protection is not decision to the protection that the protection that the protection is not decision to the protection that the protection that the protection that the protection is not decision to the protection that the protection that the protection that the protection that the protection th	en transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices. plicant will be notified as soon as a decision is made.					
In decision nas poem made yet on the protect, the applicant min as the second of the s						
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis. 1 and 90 bis. 3, respectively, before the completion of the technical preparations for international publication.						
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
RECEIVED						
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2	Malene Strarup - 9 MAY 2005					
NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	ROULT WADE					

Form PCT/ISA/220 (January 2004)

BOULT WADE

(SPENIS NECTOMPANYING Sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amondments must be made in the language in which the international application is to be published.

.What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- Where originally there were 48 claims and after amendment of some claims there are 51]:
 Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER See Form PCT/ISA/220						
P62877W000	ACTION as well	l as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/GB2005/000440	10/02/2005	10/02/2004					
Applicant		·					
	• :						
SOLEXA LIMITED							
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Bureau.							
This International Search Report consists	This International Search Report consists of a total of sheets.						
• · · · · · · · · · · · · · · · · · · ·	a copy of each prior art document cited in this	s report.					
Basis of the report							
a. With regard to the language, the language in which it was filed, uni	international search was carried out on the ba less otherwise indicated under this item.	asis of the international application in the					
The international this Authority (Ru		slation of the international application furnished to					
b. With regard to any nucle	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.					
2. Certain claims were fou	ind unsearchable (See Box II).						
3. Unity of invention is lac	king (see Boy III)						
3. Unity of invention is lac							
4. With regard to the title,	• •						
, <u>—</u>	ubmitted by the applicant.						
the text has been established	shed by this Authority to read as follows:						
	. •						
	•						
	·						
5. With regard to the abstract,	·						
X the text is approved as submitted by the applicant.							
the text has been establi may, within one month fr	shed, according to Rule 38.2(b), by this Autho om the date of mailing of this international sea	rity as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.					
6. With regard to the drawings,							
•	published with the abstract is Figure No	a. 2					
as suggested by	the applicant.						
	his Authority, because the applicant failed to si						
	his Authority, because this figure better charac	terizes the invention.					
b. none of the figures is to	be published with the abstract.						

INTERNATIONAL SEARCH REPORT



International Application No PCT/GB2005/000440

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/57249 A (SOLEXA LTD; BARNES, COLIN) 9 August 2001 (2001-08-09) the whole document	1-49
X	WO 01/62982 A (MOSAIC TECHNOLOGIES, INC; AFFYMETRIX, INC; GINGERAS, THOMAS, R; BOLES,) 30 August 2001 (2001-08-30) see whole doc. esp. Figures	1-49
Α	US 5 654 413 A (BRENNER ET AL) 5 August 1997 (1997-08-05) see whole doc. esp. col. 14 and claims,	
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means D* document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 27 April 2005	Date of mailing of the international search report 10/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mueller, F

Form PCT/ISA/210 (second sheet) (January 2004)

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International Application No
PCT/GB2005/000440

ategory °	ction) DOCUMENTS CONSIDERED TO BE RELEVA Citation of document, with Indication, where appropris		Relevant to claim No.
	WO 98/44151 A (GLAXO GROUP KAWASHIMA, ERIC; FARINELL! MAYER, PASCA) 8 October 19 cited in the application see whole doc. esp. claims and Fig. 3 and p. 31,32	1-49	
(NAKANO M. ET AL.,: "sing using water-in-oil emulsion of the second of the whole document."	1-49	
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INTERNATIONAL SEARCH REPORT



information on patent family members

International Application No
PCT/GB2005/000440

		T	Τ		T. D.Alleria
	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
	WO 0157249 A	09-08-2001	AT	264924 T	15-05-2004
•	***		AU	2870401 A	14-08-2001
			CA	2398172 A1	09-08-2001
			DE	60102894 D1	27-05-2004
		•	DE	60102894 T2	16-12-2004
,	•	•	. DK	1252339 T3	09-08-2004
			EP	1252339 A1	30-10-2002
ł		•	WO	0157249 A1	09-08-2001
İ			JP	2003521694 T	15-07-2003
·		*	US	2003064398 A1	03-04-2003
	WO 0162982 A	30-08-2001	AU WO	4172301 A 0162982 A2	03-09-2001 30-08-2001
	US 5654413 A	05-08-1997		5604097 A	18-02-1997
1	•	•	AU	712929 B2	18-11-1999
			AU	4277896 A	06-05-1996
			AU	5266399 A	09-12-1999 25-04-1996
1			CA	2202167 A1	
1			CA	2441634 A1	25-04-1996
1			CZ	9700866 A3	17-09-1997
		•	EP	0793718 A1	10-09-1997
			FI	971473 A	04-06-1997
1			HU	77916 A2	28-10-1998
			JP	10507357 T	21-07-1998
			JP	2004089198 A	25-03-2004
			JP	2005052146 A	03-03-2005
			JP	2005065704 A	17-03-2005
			NO	971644 A	02-06-1997
Ī		•	US	6352828 B1	05-03-2002
			US	6138077 A	24-10-2000
			US	6280935 B1	28-08-2001
			US	6172218 B1	09-01-2001
			WO	9612014 A1	25-04-1996
1			US	6235475 B1	22-05-2001
			US	6172214 B1	09-01-2001
			US	6150516 A	21-11-2000
			U\$	5635400 A	03-06-1997
1			US	5846719 A	08-12-1998
			AU	3946195 A	06-05-1996
1			DE	69513997 D1	20-01-2000
			DÉ	69513997 T2	27-07-2000
1			EP	0786014 A1	30-07-1997
1			EP	0952216 A2	27-10-1999
			WO	9612039 A1	25-04-1996
		•	US	6140489 A	31-10-2000
ı			US	5695934 A	09-12-1997
			U\$	5863722 A	26-01-1999
	WO 9844151 A	08-10-1998		6846698 A	22-10-1998
			EP	0972081 A1	19-01-2000
			WO	9844151 A1	08-10-1998
1			JP	2002503954 T	05-02-2002
ı			AT	269908 T	15-07-2004
			AU	6846798 A	22-10-1998
			DE	69824716 D1	29-07-2004
}			ΕP	1498494 A2	19-01-2005
			EP	0975802 A1	02-02-2000
		<u></u>			



INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No
PCT/GB2005/000440

Patent document cited in search report		Publication date		Patent family member(s)	Publication date .
WO 9844151	Α		WO JP US	9844152 A1 2001517948 T 2002055100 A1	08-10-1998 09-10-2001 09-05-2002

Form PCT/ISA/210 (patent family annex) (January 2004)